Rec'd Sept 17
Ans 19

Deforest farm. September 13 1861.

Doctor Engelmann. St Louis

Dear Sir

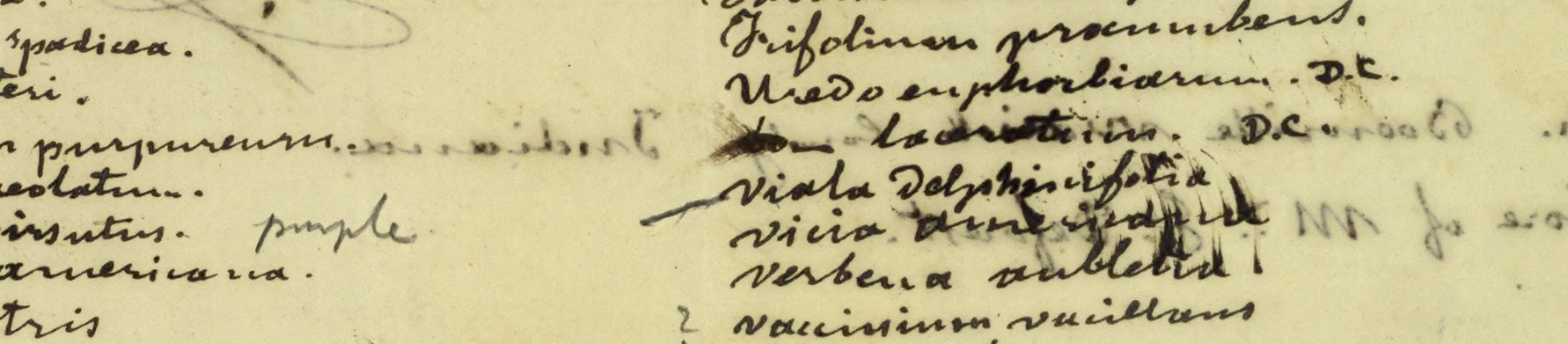
According to my promises I included the — plant that the deficiency of general works on botany has not abled me to determined, and I am glad that a accurate botanist on Western plants as you are, may ~~I~~ be the detector.

I including also a species of Oxybaphus, not described in Gray's manual.

The following plants are additions to my herbarium from Potosi, among which, I will be glad to send you all those can please you.

Arabis lavigata.
Astragalus Mexicana.
Alsine Michauxii.
— patula.
Acerates paniculata. Decaisne
Anachusis Canadensis.
Acidium silphia. Pech
— solidaginis. Pech.
Coreopsis lanceolata.
— auriculata
— tripteris.
Castileja coccinea – var. pallens.
Calaminthe glabella.
Cacalia tuberosa
Draba cuneifolia
— brachycarpa
Dodecatheon meadia.
Dianthera americana.
Euphorbia commutata.
Heuchera compressa.
Hedia radiata.
Hymbristylis spadicea.
Drosera walteri.
Gnaphalium purpureum.
Galium lanceolatum.
Gonolobus hirsutus. purple
Glenchera americana.
Iris lacustris
Lithospermum longiflorum
Lupula cosmyestuis.
Lebenworthia Missouri.
Lysimachia longifolia.
lanceolata
—
Nemastylis celestina – Nutt.

Oldenlandia minima
— purpurea
— angustifolia
Onosmodium molle
Onothera Missouriensis
Pinus rigida
Plantago cordata
— Cataryonica.
Phacelia fimbriata
Poa laxa.
— annua
Psoralea melilotoides.
Penstemon digitalis
Silene Virginica.
Salix Sericea.
Salvia lyrata
Solea canadensis
Schrankia uncinata.
Tristenum angustifolium
Thuretis stricta.
Trayia urticofolia
Talinum teretifolium.
Trifolium procumbens.
Ulmo emphorbiarum. D.C.
— lachistatum. D.C.
Viola Delphinifolia
vicia Americana
verbena aubletia
? vaccinium vacillans
— stamineum.
Polygonum tenue
Gaillardia glabella
— mollis.
Aster. Starricoides
Helianthus occidentalis.



Sphaeria graminis. Fries.
Phaseolus helvolus.
Agerantheum lanceolatum.
Croton glandulosum.
Ambrosia bidentata.
Linum bitifolium.
Nyctaginea exfoliata.
Liatris squarrosa
Vernonia squarrosa.
Rudbeckia speciosa.
Polygala ambigua.
Lechea major.
Dodia teres
Chara nigro-punctata — Pech.
Chara micronata — Groutii.
Leptosiopsis linearis.
Pardanthus chinensis. (naturalized extensively)
Rosa rubiginosa.
Polygala sanguinea.
Bastiflora lutea.
Festuca nutans.
Agave virginica.
Pteris cuneata — Lin.
Archangelica hirsuta.
Cnicolus pumilus.
Alnus serrata
Hypericum corymbosum
— prolificum.
Polygala senega
Lobelia leptostachya.
Panicum microcarpon.
Fumaria sempervirens.
Actinomeris helianthoides
Helianthus corymbosum
Spergularia simplex.
Asplenium adiantum

Ostrya virginica
Syringa vulgaris
Asclepias incarnata
= Alisma Plantago Aquatica

I regret, that the present political contest has deprived me from the pleasure of studying the plants from that part of Missouri, which is as far I can see the grave of the western Botanists. In the hope of better days

I am yours devoted servant

F. Pech

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

F. Pech. Boonville Cooper County. Indiana.

Care of M. J. Deforest.

P. S. The Linum rigidum, is very common here.

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Rec'd Oct 11
Ans Oct 15

Deforest farm, October 7th 1861

Doctr Engelmann

Dear Sir.

Your kind letter has been received in due time, and, as you seem desirous to have forward the two species of Cleara, I write this letter for be ascertain that is only your wish, and for ask you that the marshall laws will not interfere (as far as examination of the contents) in that matter.

Ridell, in is catalogue of Western plants, on the authority of Nuttall, says, that the Evolvulus argenteus growns on the sandy hills of Missouri, —

I did refer, my Oxybaphus, to the angustifolius, but in the description, "leaves linear-lanceolate, sessile, obtuse at the base" put me in the doubt, the leaves in my specimens being attenuate and acute at the base.

If I have written Cirsium rigida for C. muticus is an error induced in my mind by the synonymous vernacular name (yellows pine) given in the south to a variety of C. rigida.

Phacelia fimbriata, Michx. and Phacelia Pursh; Buckley. both grows in Potosi, the latter having been collected by me also in Pike county, around Louisiana.

Viola pedata, having been collected by me on the sterile hills of Pike county, cannot have been mistook for the delphinifolia, — both grows in the vicinity of Potosi.

Viburnum Lantanoides has this stamineal tryped so much protruded out, for to be mistaken in its determination. I could be very glad to have recei the V. arboreum.

Diabe canadensis, cerotinoides and brachycarpa, have been collected by me at Potosi,

Rosa rubiginosa familiar to me from France,

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grow on a dry and elevated place one mile from Potosi.

My Pteris, is the Aquilina - var candata. Gray which is the Pteris candata. Linn.

Sparganium simplex. Huds. is the S. americanum Nutt. according to Gray. I have observed your valuable species S. erycarpum, in both Pike Counties Mo and Ill.

Archangelica hirsuta, is realy that species.

The number of plants collected by me in Pike and Washington county, Mo, exceeding the number 1000; and the Short list that I have send you is only the specimens in addition to my collection from Potosi, place where I lived any four Months.

Please tell me if you want have (of a plant of Missouri) the plants inspected by you, or all I have mention to you in my first letter.

Yours truly

F. Pech

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

F. Pech. Boonville, Warrick Co Indiana.
care of. F. Deforest.

Asc. pauciflora

P. S. I included a Follicle and a leaf, of an Asclepiadaceous plant I found in this county, which the stems grown clustered from a creeping base about 2 feet high, green and pliant like those of rushes, with opposite leaves. the flowers in small umbels generaly opposite the leaves, and the seeds [illegible] winged without coma.

I have collected it only in fruit. — What is it?

Rec'd Nov 20th
Ans Nov 30th 1863

DeForest farmer November 16 (1862)
1861

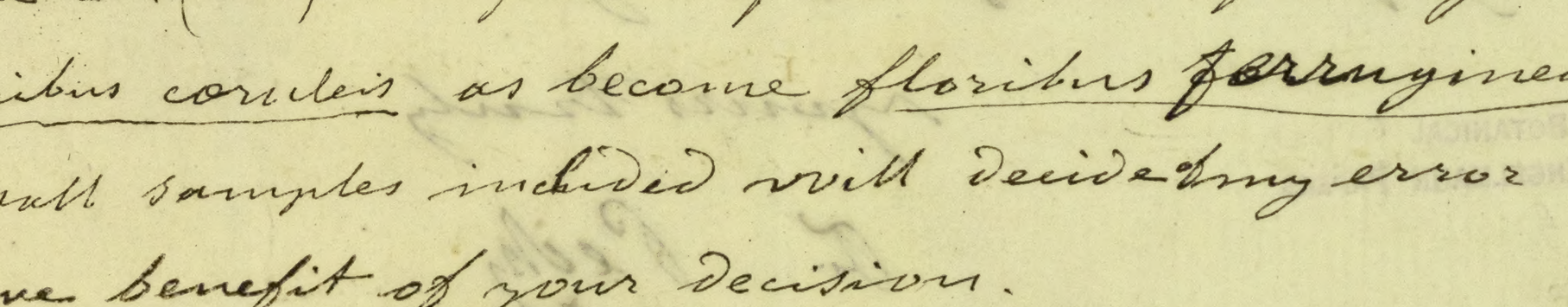
Doctor Engelmann, St Louis

I am very satisfied to learn that the Asclepias, that I send you for examination is the A. parviflora, Pursh. for I have observed that plant on more than one hundred individuals, and I have seen that all the small numbers are composed of apetalous flowers producing from September to november pods with seeds without coma (I never saw the flowering july numbers) and I suspect that these apetalous flowers producing that anomality; guided by these observations I found that Asclepias to be the Asclepias debilis, of Michaux. Gray, being silent on Synonimical concordance, I do not Known if the A. parviflora, of Pursh, is the same plant.

Included in this letter the 2 species of Chara, they have been compared with the descriptions of the species growing in France, and as far as those I think to have not committed error.

I observed again the Phaceliæ fimbriata. Michx? this plant certainly differ from P. Purshii, and do not very well agree with Michaux description, for floribus albis as been when I collected it floribus lilacinis, and now, after 3 or 4 months dessication, it has become floribus cæruleis, the Phacelia Purshii, collected at Potosi, and in Pike Co. (Mo) is a plant from one or 2 feet high and from floribus cæruleis as become floribus purpurineis. the small samples included will decide any error and have benefit of your decision.

The Vaccinium arboreum, Michx, is said to be by Gray, an Evergreen, and Michaux classified it in the division of antheris inclusis, My specimens have deciduous leaved and



have theirs antheris exertis, and correspond to the descriptions of Michaux and Gray, as the — Vaccinium stamineum. The small bicycle that I send you will prove its ~~authenticity~~ individuality

A. Gray, having quoted Spergularia Americanum — to the S. simplex of Hudson, has been cause of the misunderstanding among us. I collected your — Spergularium eurycarpon, in Pike Co. Mo.

Among the plants that I have observed here I can name the following. Linum rigidum, Cnidrea fetida, Nyssa multiflora, Liriodendron tulipifera, Ulmus alatus. Liquidambar styraciflua, Styrax grandifolia. Evonymus americanus, Gyencanthemum inamum, Andropogon virginicus, Spiranthes cernua, Gymnanthus Carolinensis, Xanthium spinosum, Heliotropium europaeum, Symplocarpus fo[illegible] Pteris aquilina, Asplenium filix foemina, Sagittella aqua. Polypodium phegopteris, Dipsacus sylvestris, Pentstemon Andrewsii. Cyperus virens, Cyperus ovularis, Solidago lanceolata, Hibiscus Moscheutos, Brasenia peltata, Lobelia puberula Habenaria Fraseri, Asclepias pauciflora, Panicum rotatum, Calamovilfa Canadensis, Aristida gracilis, etc. all plants new to me.

If some of the above can please you I will be very glad to fullfill your orders.

Yours truly

F. Pech

F. Pech Boonville Warrick Co. Indiana.
Care of Mr. Deforest.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec'd March 9th
Ans

Department of Agriculture,

Washington, March 5, 1865.

Dr. Engelmann.

Dear Sir

Among several species of seeds submitted to me for examination, ~~it~~ there are two sorts, that, want of proper ~~des~~ descriptive works I cannot identify; both are from Nebraska territory; One of the two has been sent under the name of Platte-river Ash; the only two species of that genus are described as a western production, Fraxinus viridis and F. Oregana. I have compared the fruit with each one; F. viridis, has its fruit nearly alike, but the relievo of the seed is ~~—~~ broader than in the Platte-river

specimens, which is quite linear; the Ptera, like in the viridis, has a medial nerve, but the apex is emar-
ginate in the new one, and entire in the viridis.

In the Fraxinus Oregana, the fruit is a little
larger, the seed nearly obsolete, the Ptera obtuse
at the base, in the Platte river species, the base
tapers in great extend, but in both emarginate.

I am told that this tree is described in
Emory's Survey.

The second plant has been sent us a new
species under the name of Salvia nebraskiensis
(do not mind the adjective), it is a lutea species. If these
plants from the far west are known to you, please
send me their names.

There have also been sent ~~also~~ seeds of a Liatris punctata.
Liatris punctata. Who?

Remembering your question on the genus Callitriche, I have reminded myself on the subject; at that time, under the influence of my sore eyes, my ideas where obsolete. I have studied that genus in regard to its homonymy; you will found the result enclosed in the present.

I should be glad to have a copy of Nuttal's description of the Ophiocalia hirsuta; If that do not cause you much trouble, my gratitude will equal the respect with which

I am your humble servant

F. Lesh

F. Lesh.
Agricultural department
Washington. D.C.

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F. Pech (× Erni)

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GEORGE ENGELMANN PAPERS

Ans Dec 12
an Jan 23

Washington D.C. December 9. 1857.

Dr. G. Engelmann.

St. Louis. Mo.

Dear sir

Having collected Orobanche minor, around Paris (France) I have like yourself associated to it the Orobanche which I have sent to you, but, the Parisian plant is more slender and diminutive in all its parts and even the authors of the Parisian floras do not agree about that species — viz

Flore des environ de Paris. 1836. by Chevallier.

Orobanche minor. Sutt.

Inodora, 4-5 unc. alta, caule erecto densius squamoso pubescente viscoso, spica pauciflora sub-ovata, corollis quadrifidis villoso glandulosis, luteolis; lobis labii inferioris subaqualibus margine crispulis, staminibus infera pilosis; Stylo glabro quandoque passim pubescente glanduloso, Stigmate bipartito luteo, utroque calycis lobo juncta marginem — breviter inciso, bracteis ovato acuminatis corolla brevioribus villosis.

Synopsis de la nouvelle flore des environs de Paris. 1837. par F.V. Merat.

* Calyx nul; Corolle à 4 divisions

A. Corolle accompagnée de bractées latérales en

Orobanche minor. Smith.

Tige simple, arrondie; fleurs en épi lache nombreuses, petites, allongées; etamines a filet glabre; style glabre.

Botanicon Gallicum. A. J. E. Duby. 1828.

Orobanche minor. Sutt.

Orobanche Trifolii-pratensis. Vauch.

Scapo ad basim incrassato modice squamoso, bracteis lanceolatis pilosis, laciniis calycinis nunc simplicibus nunc bifidis, corolla arcuato-cylindrica, labio superiore rotundato crenulato integro, inferiore trifido lobis aequalibus rotundato-crenulatis, staminibus ultra basin corollae insertis, antheris nigrescentibus, stigmate bilobo purpurascente transverse sinuoso. 4 — Flores pallide violaceis aut sordide albescentes.

In these three descriptions you will perceive confusion and the description of my plant compared with them agrees closely with that of the Botanicum gallicum.

Your decision upon the plant is of great value, but, unhappily, your comparisons are made upon dry specimens, and as the plants of that genus resemble very much each other in that state, it is not always possible to decide.

When I left France, (1848), more than one hundred species of Orobanche were described in Europe.

It was thought by eminent botanists that the forms of that genus were modified according the habits of the plants upon which they grew. Desfontaines,

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recognised himself to be unable to separate them.
Rickenbach, after having figured nearly sixty of them, renounced the unlimited work, and Vaucher, said that the probanche should be named by the plant upon which it grew.

According to the views of that time it would be to day, impossible to distinguish these plants because the number of species would reach as many individuals as there are vegetables growing in a country.

This letter is accompagned with a packaye containy the adventive plants named in my last; they are not labeled because the postal laws forbid any information whatever in such packayes; as you are familiar with them all will be right.

Next season I will look closely for Euphorbia mercurialina, and if succesful I will secure a large amount of samples for distribution.

I will also gather for you all the species of Vitis growing in this district. I have to say about them that Vitis Labrusca, here, has the fruit considerably larger than in the Missourian plant, and I thing it a different species. I am told that Rafinesque has described about fifty forms of grapes in the U.S.

I am glad to see the Cryptis Virginica Nutt. separated from Villa Vaginiflora. Torr. It is a mediteranean plant described by Linnaeus, under Phleum schaenoides. Cryptis schaenoides Lam. and Heleochloa schaenoides Host.; as this plant is quite rare I include it in the package.

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Respectfully yours

F. Pech

F. Pech. Agricultural Depart.
Washington. D.C.

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Rec'd Jan 23d
Ans Jan 26th

Washington D.C. January 20th 1868

Dr. G. Engelmann

St. Louis Mo.

Dear Sir

With the President I send upon a packay containing a Cyperus, which differs from all the Species in my possession, also from the Descriptions given in Gray's and Chapmans Floras.

If I have not made any mistake, the plant, if not described in Works out of my reach, may prove to be a new Species;

As you have already revised the plants of that genus, I will be satisfied to have your opinion about it and guide myself accordingly

Yours with high regard,

F. Pech

F. Pech, Agricultural Department, Washington, D.C.

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Rec Febr 13

Washington D.C. February 7th

Dr. G. Engelmann.

St. Louis. Mo.

Dear Sir—

Cyperus retroflexus Engel. and Cyperus retroflexus. Torr. have been collected by me in this vicinity, like the latter it is growing in the limits of the Flora of the northern states. As you have the priority of its discovery, you have the right to correct the trivial name, and I will be glad if you could name it S.D.L. Wrightiana.

Doctor S.D.L. Wright of Penn Yan, N.Y. has been very useful to me in completing my my herbarium with northern plants.

Yours with high regard.

F. Pech

Pech

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Rec'd Nov 22 1869

Washington D.C. Sept 18th 1868

Dr. George Engelmann.

Dear Sir

In 1866, my husband, Fred Peck, Then a clerk in The Dept of Agriculture present-ed to The Government a collection of about 2.000 plants, which were accepted by an act of Congress with an appropriation of Three hundred Dollars, to meet The expense for their arrangement and preservation; wishing to enlarge The collection in The Museum of The Dept, he generously offered all his duplicates for exchange with other botanists, and for this purpose, he prepared a list or Catalogue of The plants of his collection under The name of "United States Plants in The Dept of Agriculture;" To be used as a medium of ex-change; this Catalogue is not a scientific publica-tion, but simply a list of names; it contains many typographical errors, but That is not the fault of Mr. Peck, for he corrected Three proof-sheets, and the fourth one was not submitted to

him, and after its publication he made an
errata which he directed to be printed on slips of
paper and pasted inside the cover, This was
not done; and after all was not of much consequence
as botanists would readily detect such errors; by means
of this Catalogue The collection of plants in the
Dept has been doubled and with his last duplicate
its mission was ended. The new Commissioner
of Agriculture, who discharged Mr. Peck two months
ago, now seeks to prove that Mr. Peck is not com-
-petent to classify plants, and uses this Catalogue
to sustain his charge. Mr. Peck wanted to have
the given and prepared by him, examined by some
competent botanists, but this was not done.
Now I enclose one of the Catalogues for your
inspection, and wish to know if you think that
a proof of his being, "totally ignorant of classification"
are not the plants themselves the proper
test of his abilities as a botanist? I have written
this without his knowledge, hoping that you may
be able to give him some words of comfort in
this matter. Can you not write to him as if you

had incidentally learned of it? I know that he has great respect for you, and a very high appreciation of your botanical knowledge, If you can assist him in any manner I shall be most thankful. With an anxious heart I am

Very Respectfully

Mrs. E. Peck 121. H street

South Washington

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